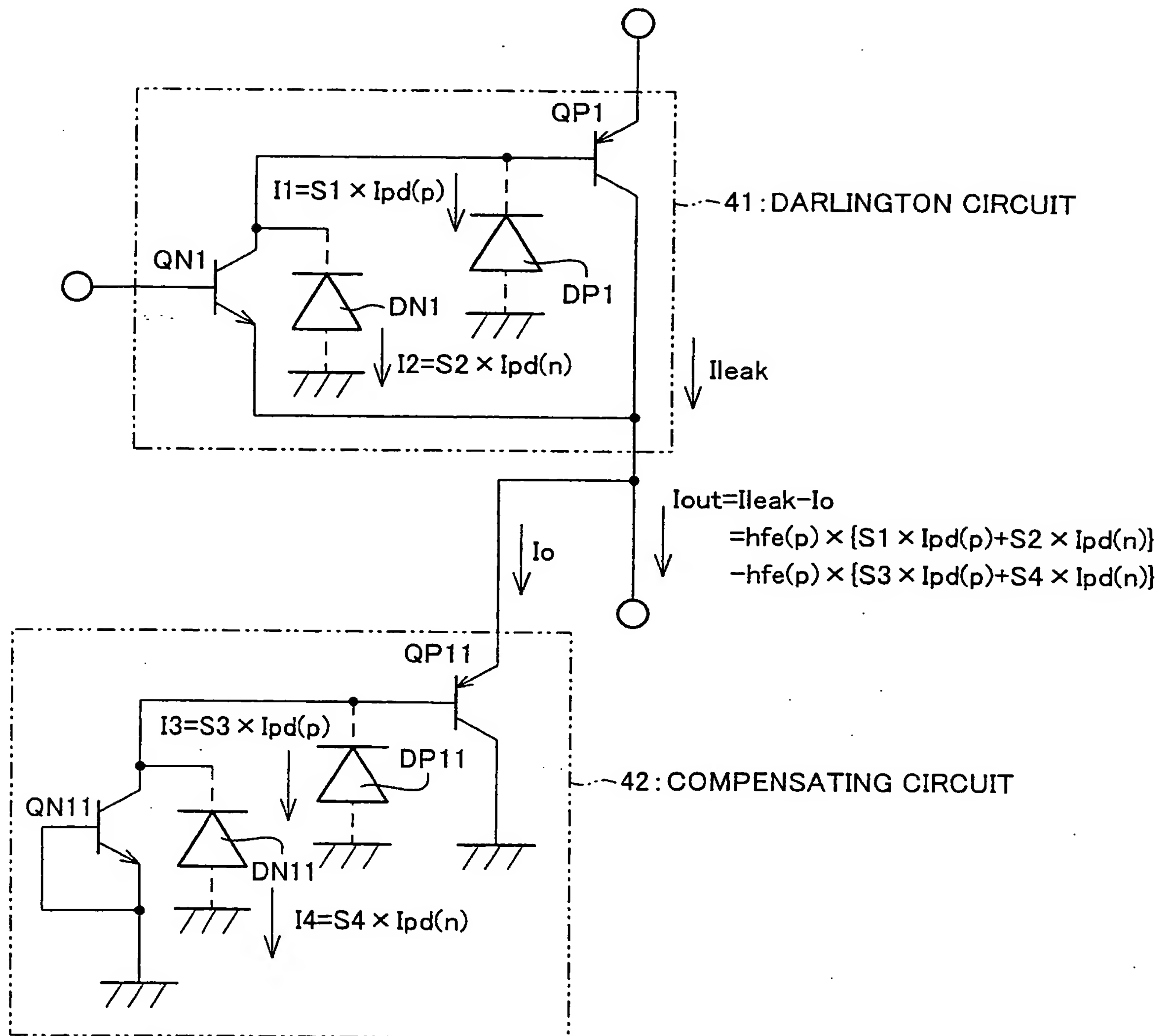


FIG. 1



**FIG. 2**  
RELATED ART

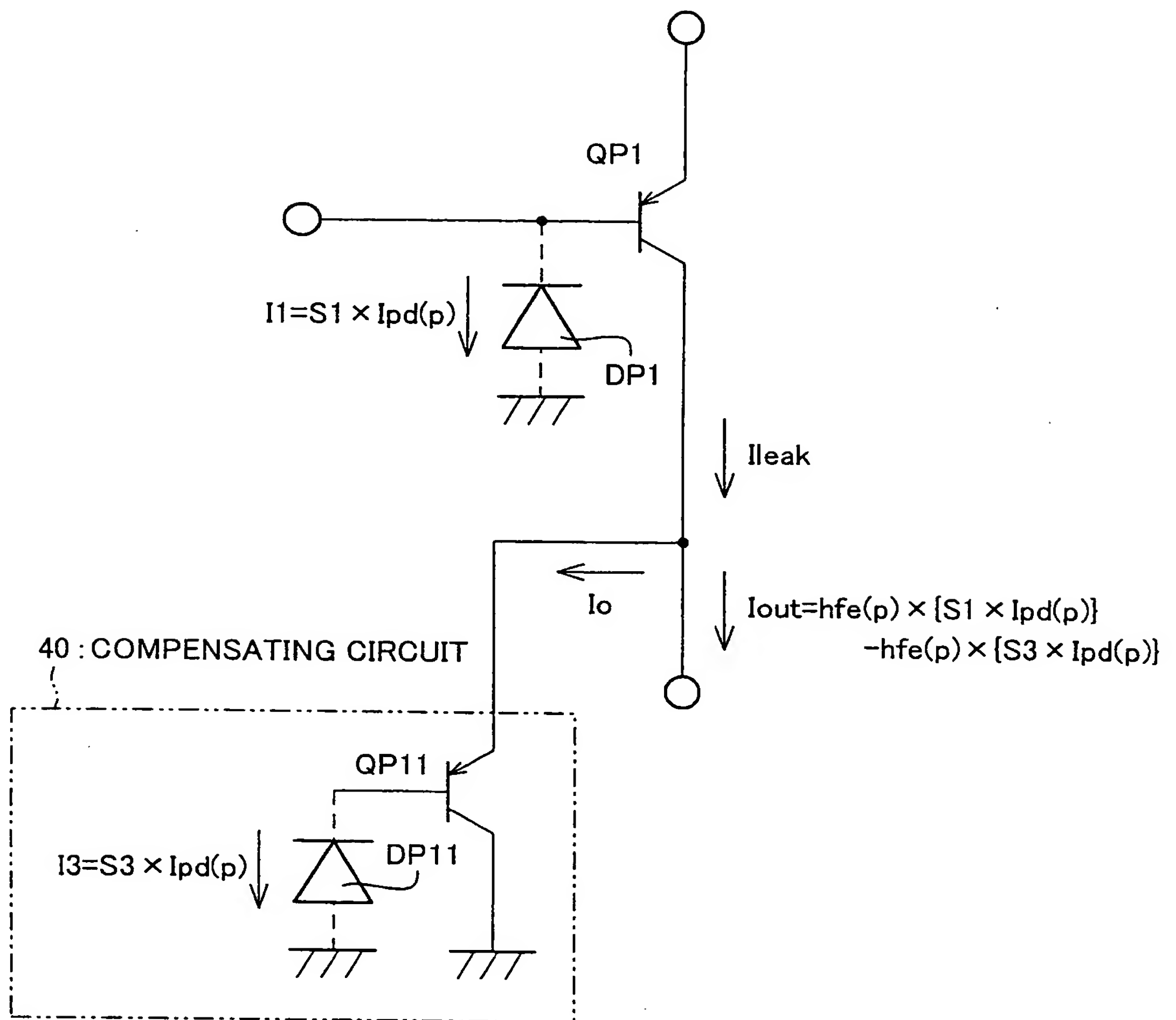


FIG. 3

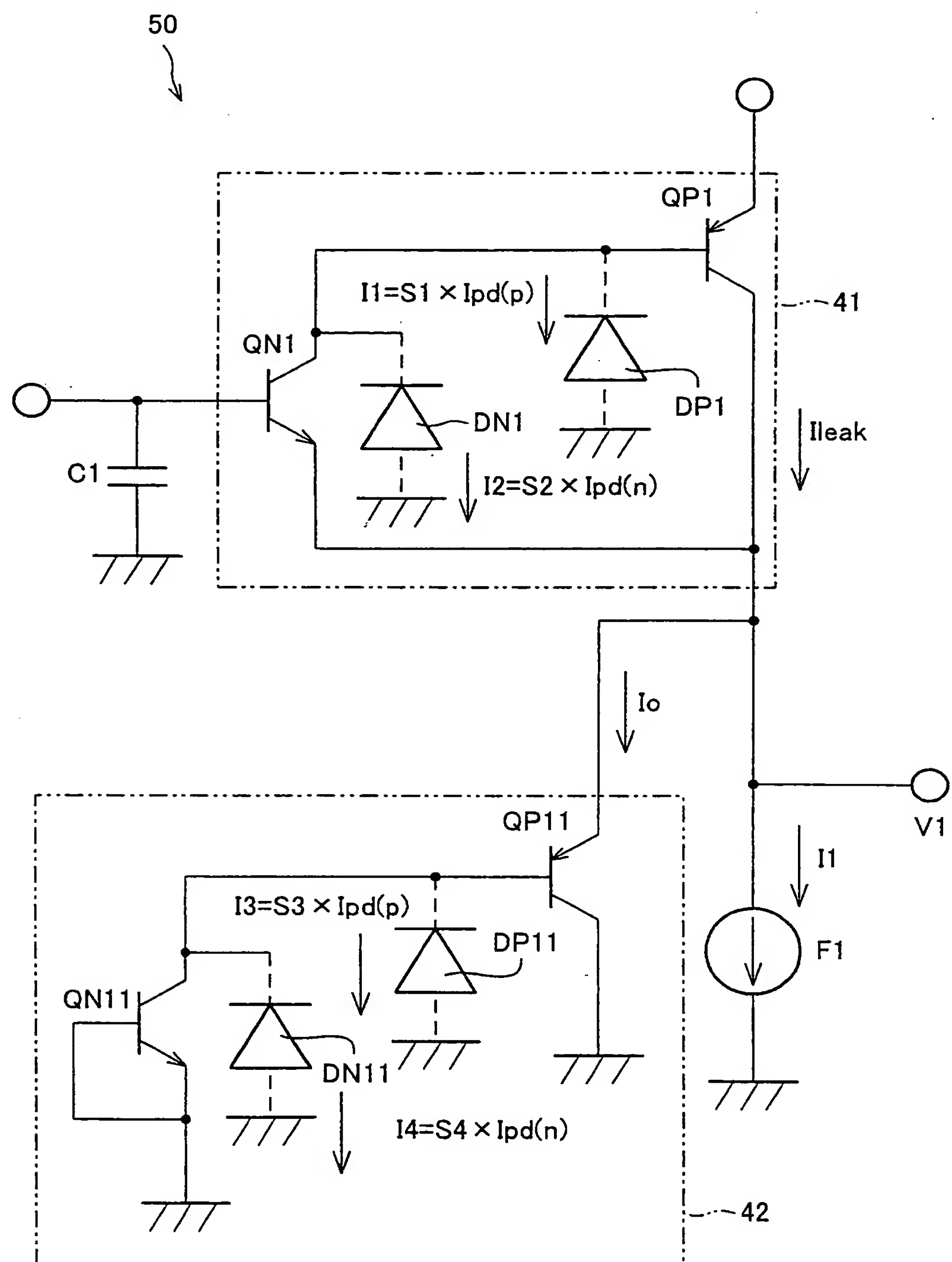


FIG. 4

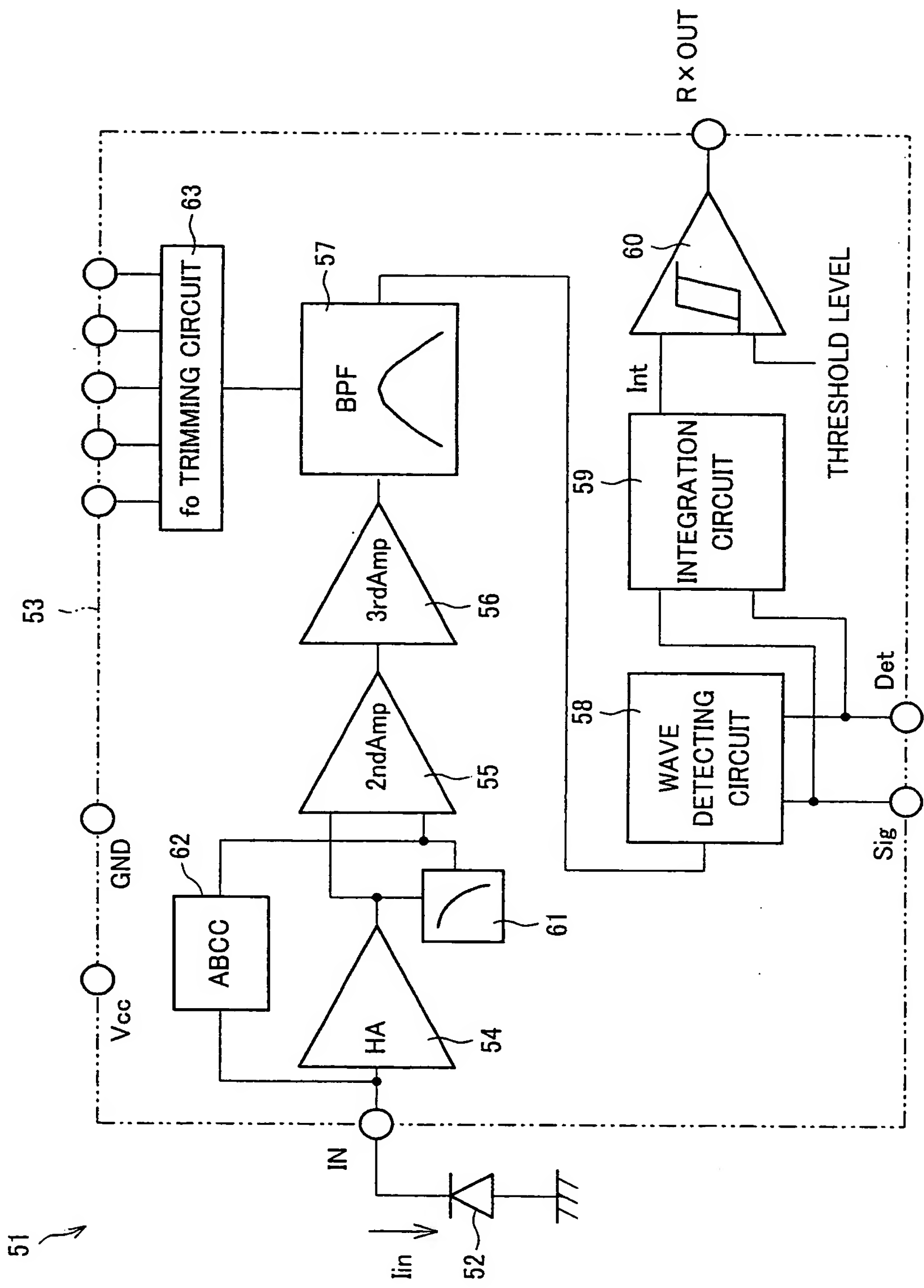


FIG. 5

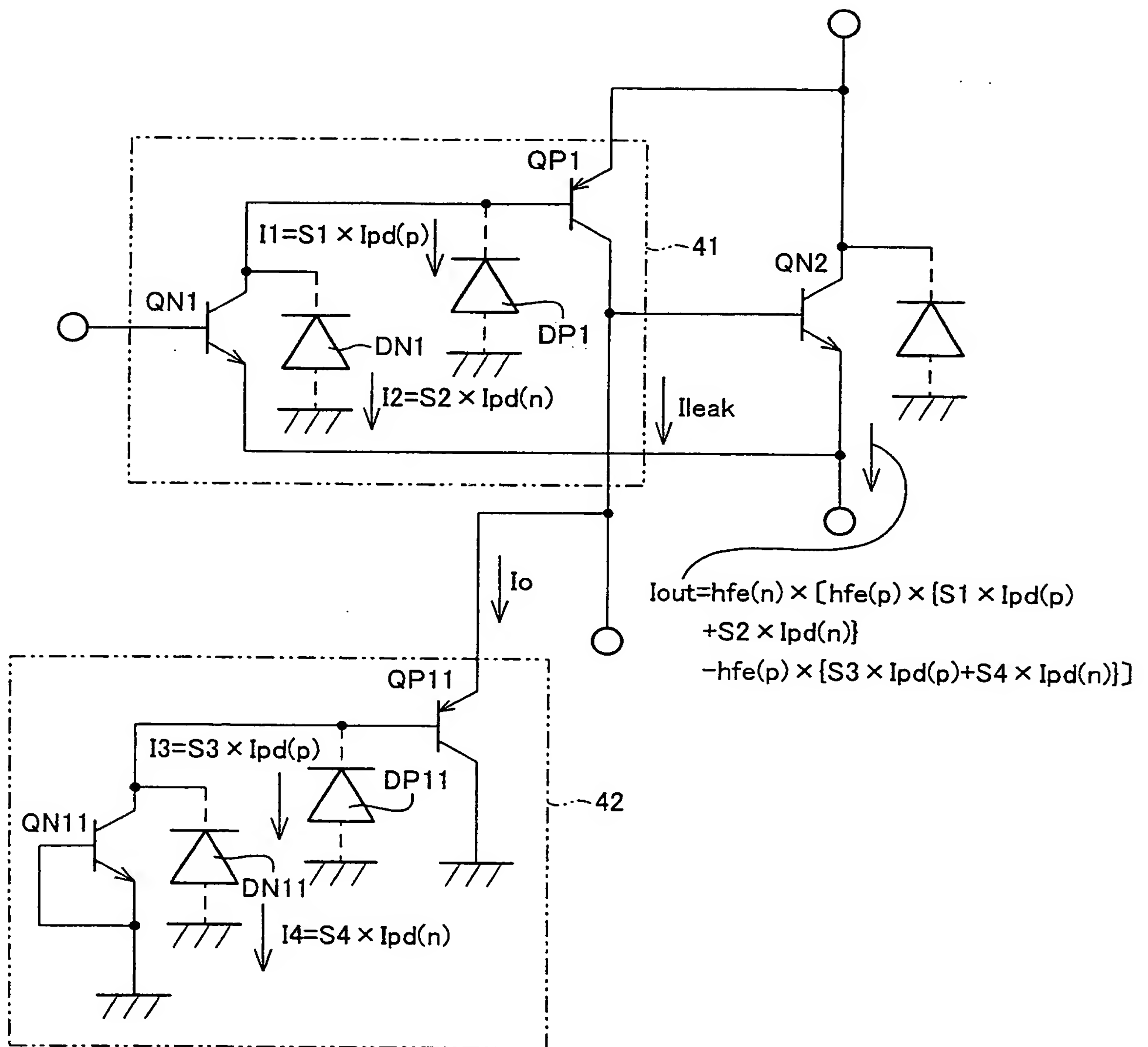
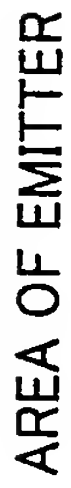


FIG. 6



**base**

emitter

4

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2.

L

by

AREA OF N-TYPE EPITAXIAL LAYER

**FIG. 7**  
PRIOR ART

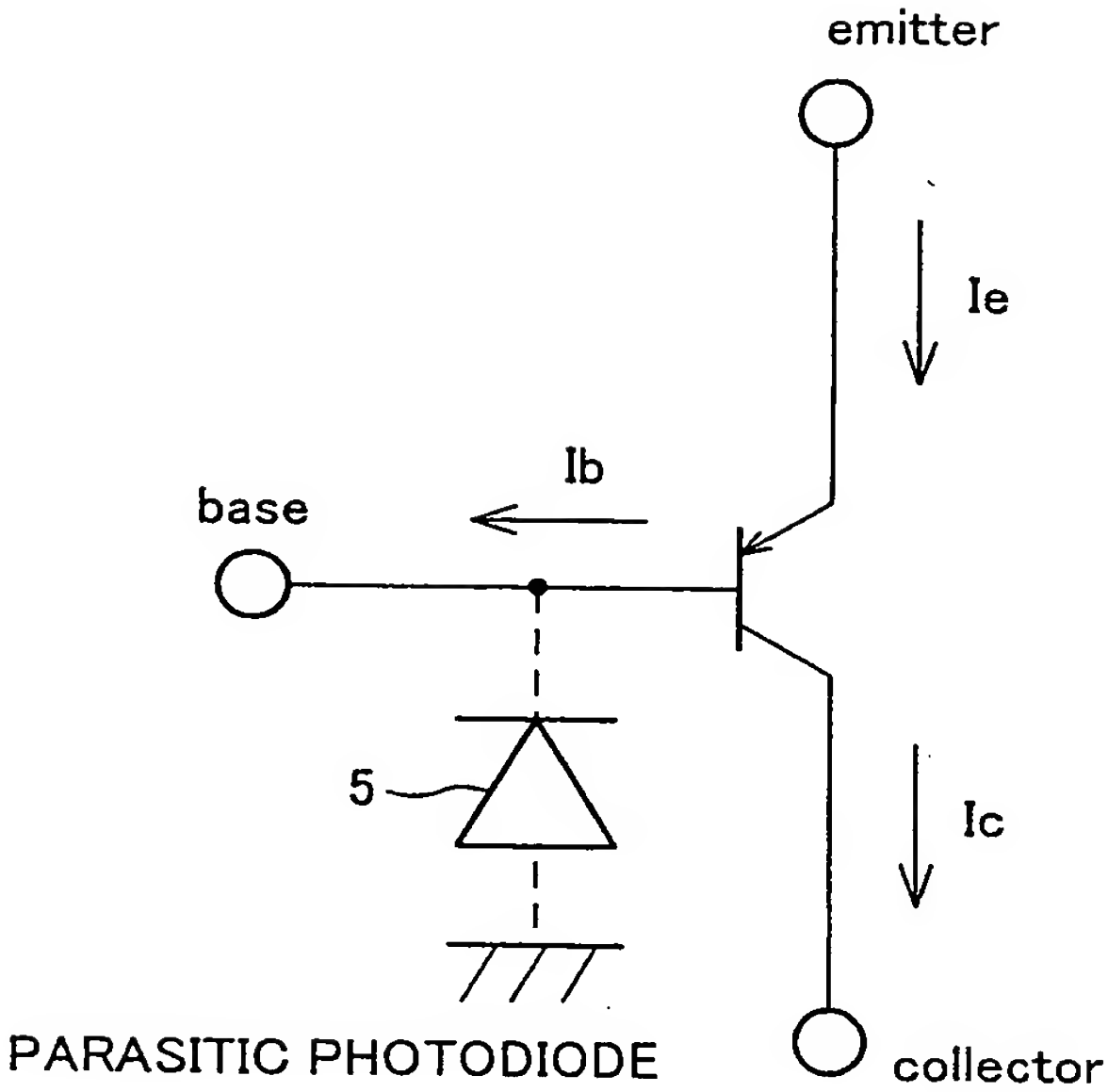


FIG. 8



↑

14

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Z

-14-

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U

Id

51

1

AREA OF N-TYPE EPITAXIAL LAYER



FIG. 9  
PRIOR ART

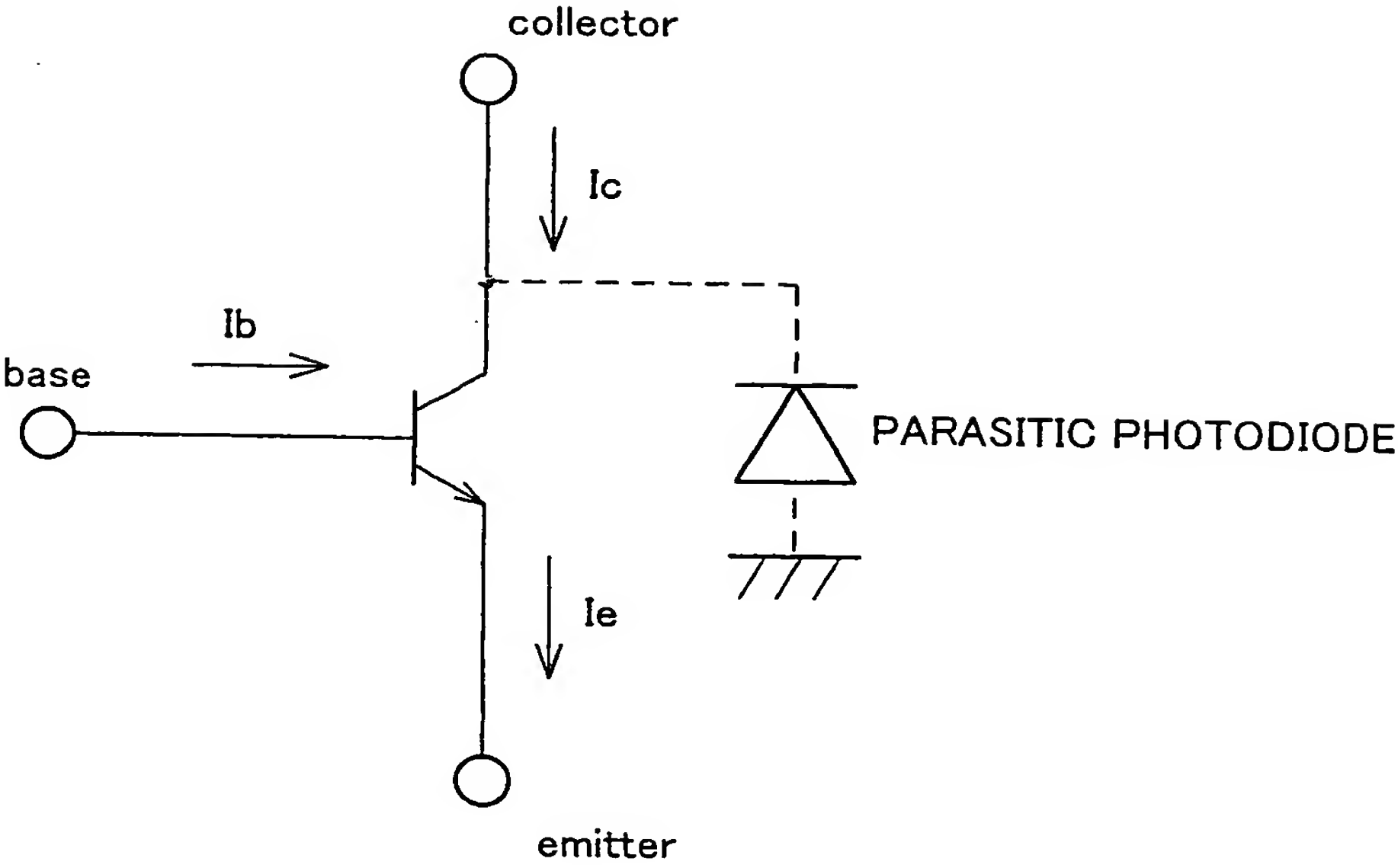
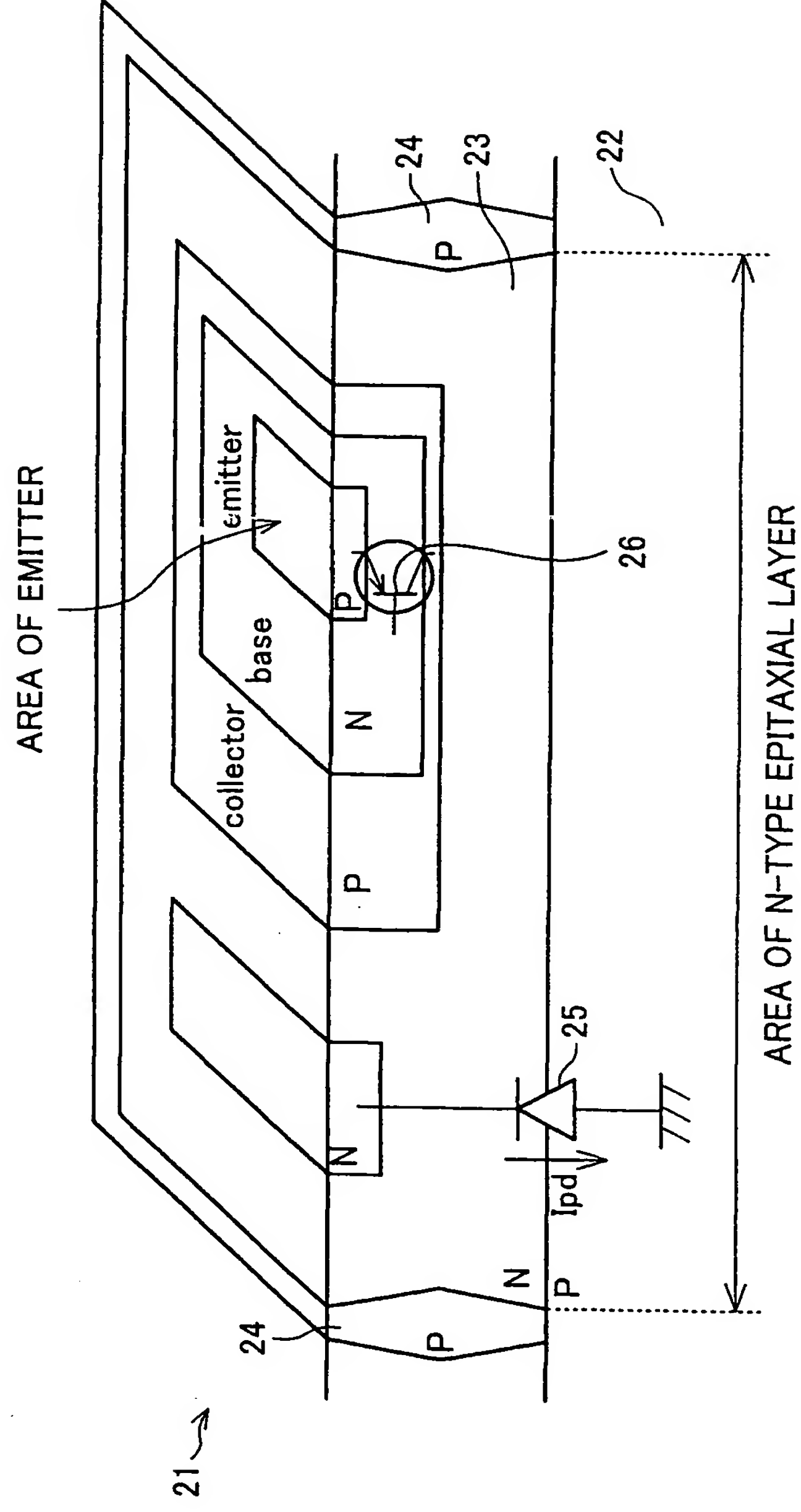
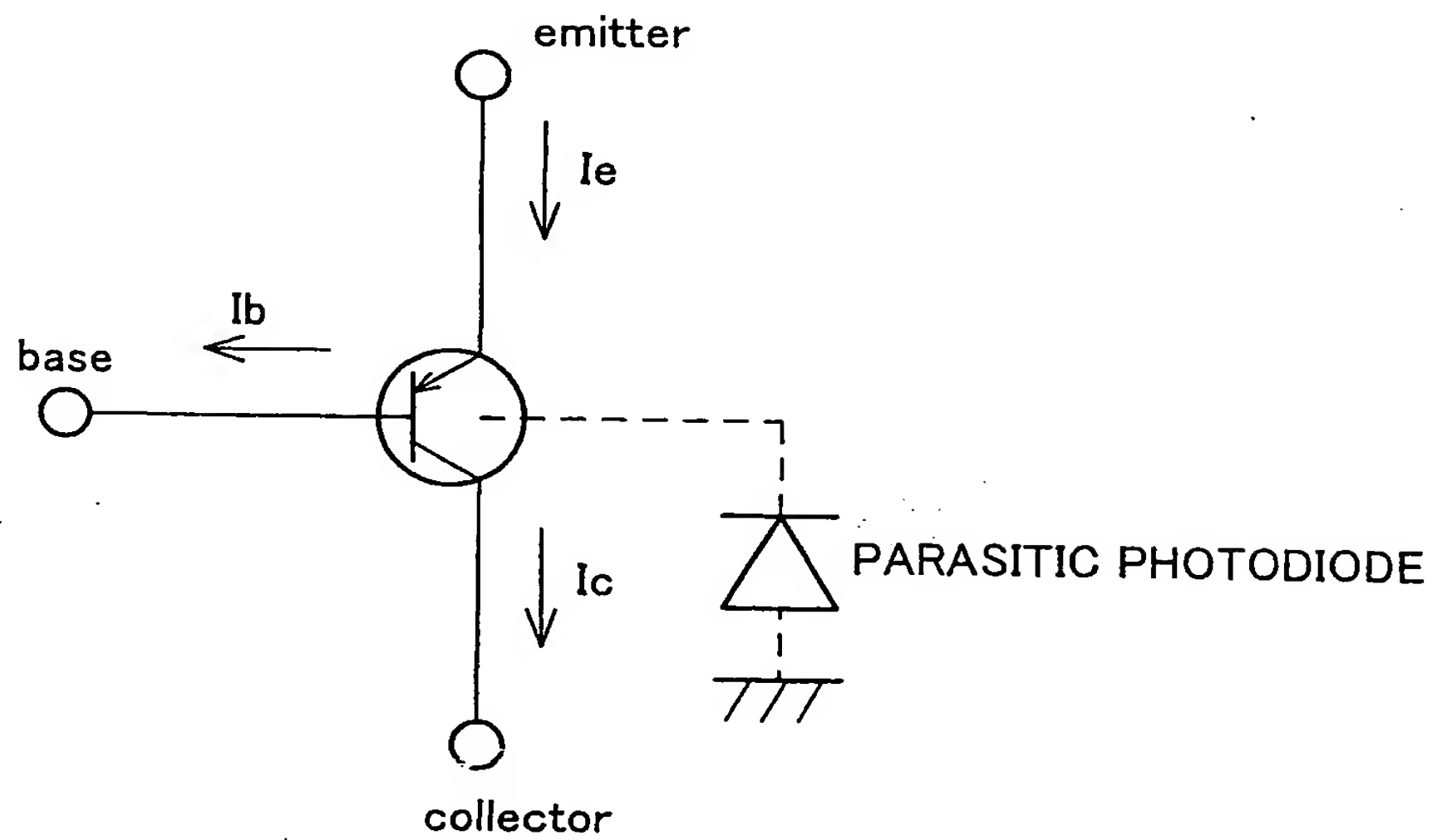


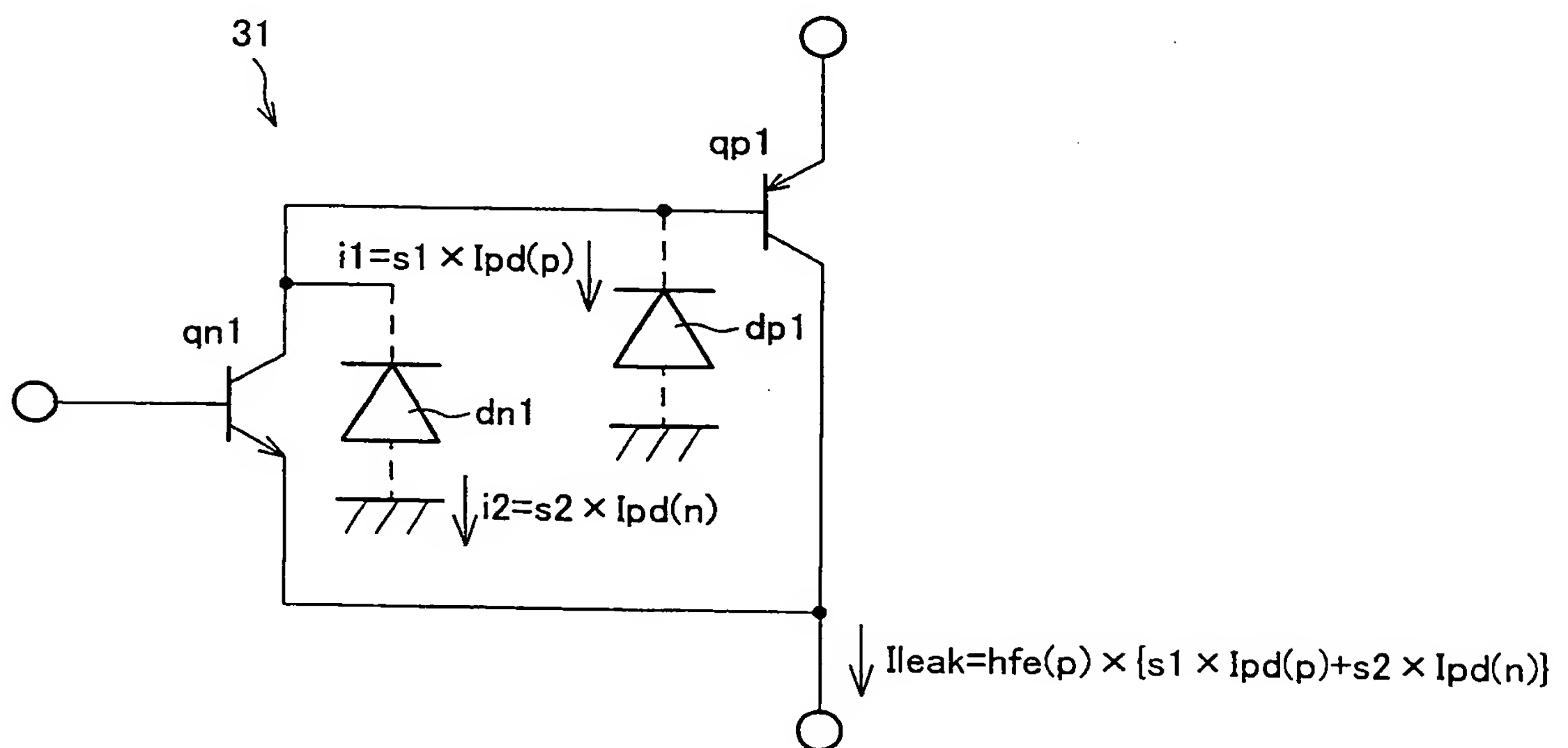
FIG. 10  
PRIOR ART



**FIG. 11**  
PRIOR ART



**FIG. 12**  
PRIOR ART



**FIG. 13**  
PRIOR ART

